

GIS-REMIS Connection

Greg Michael

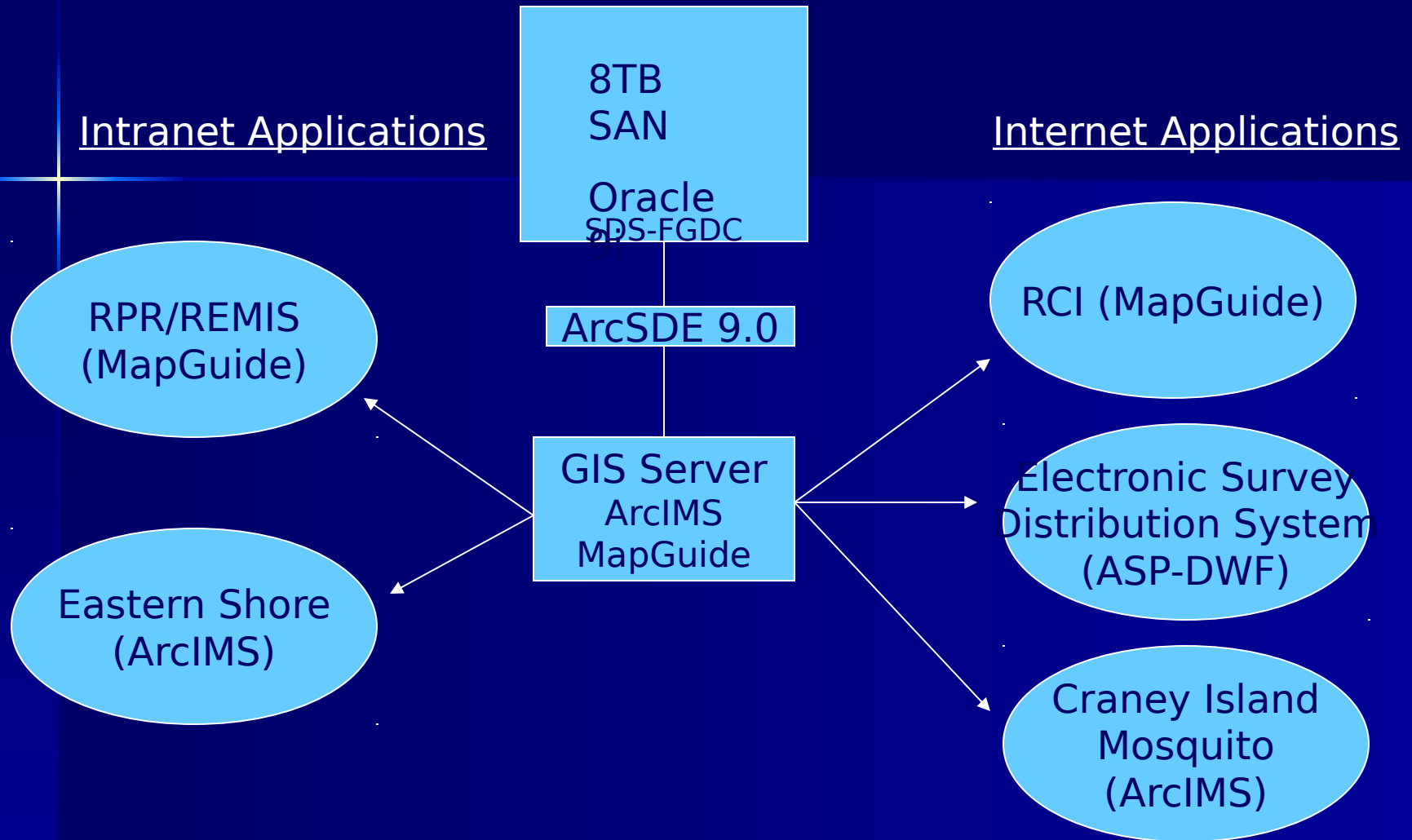
GIS Analyst, Geospatial Services
Section

USACE, Norfolk District

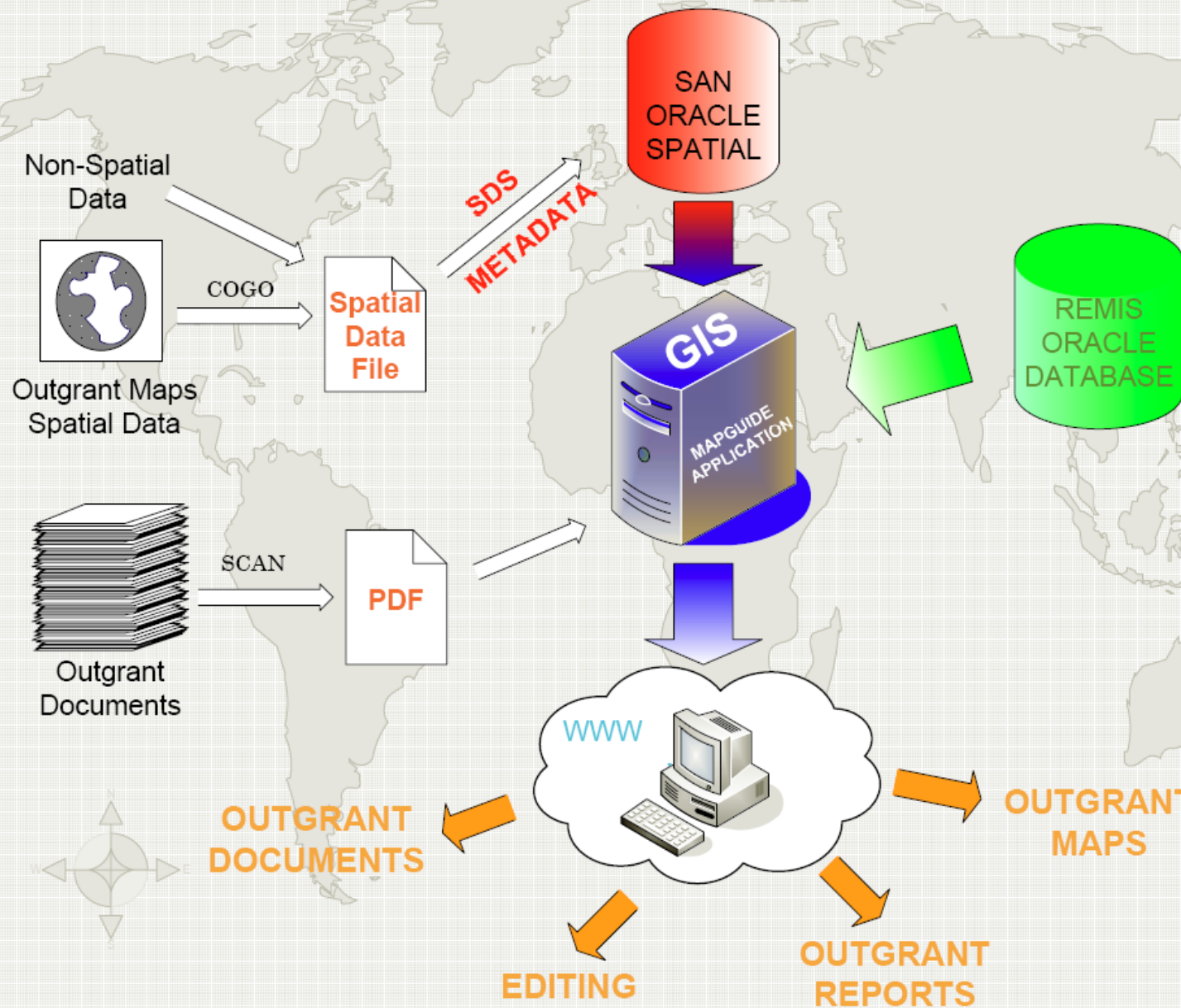
Outline

- Overview of Norfolk District's eGIS
- Real Estate Business Process – Incorporating GIS
- GIS-REMIS Concept Design
- Software Comparison
- Demonstration
- Nuts and Bolts
- How you can connect to REMIS

Norfolk District Enterprise GIS



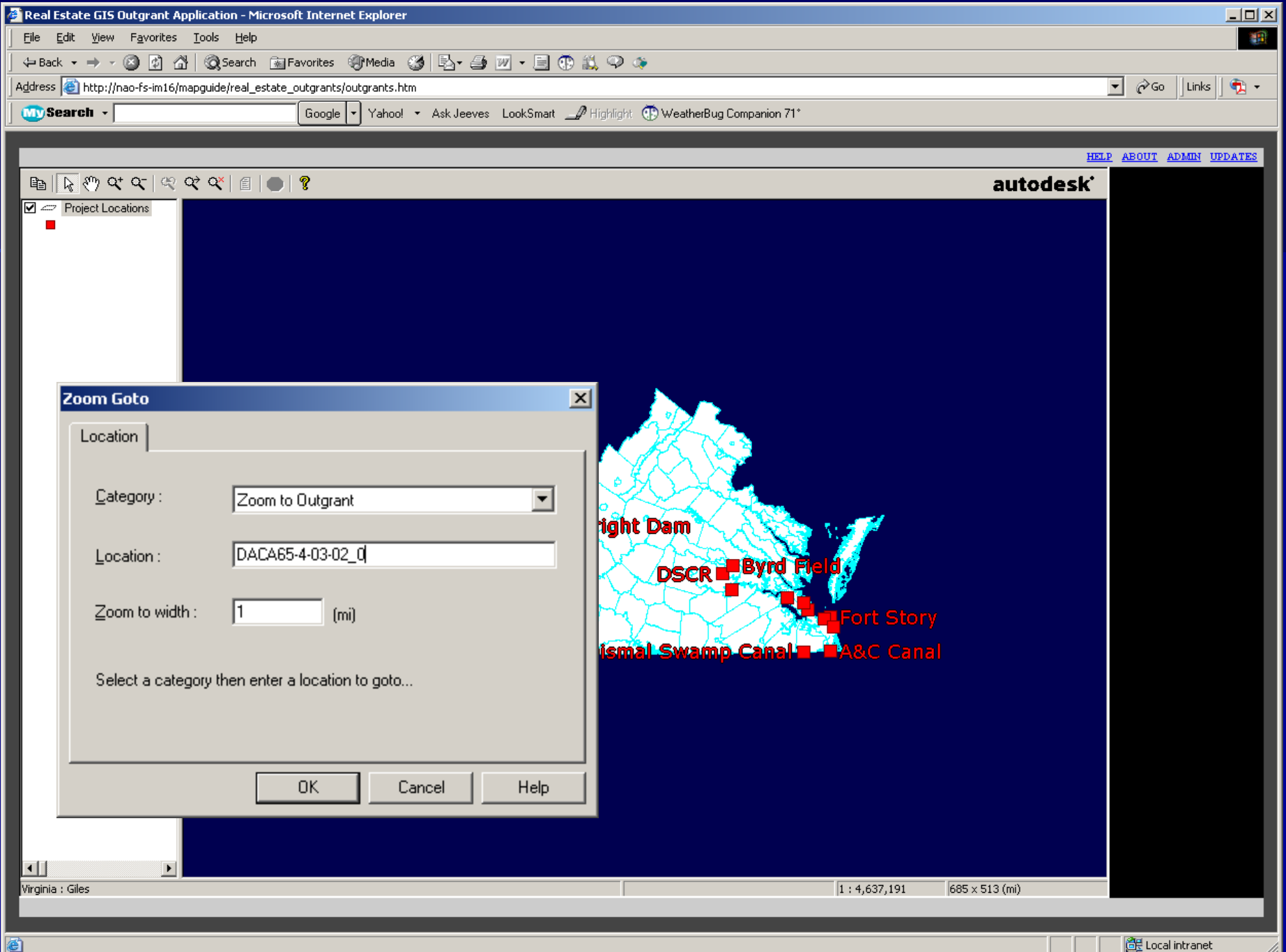
Real Estate GIS Outgrant Application Conceptual Design

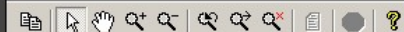


Software Comparison

IDENTIFIED NEEDS	ArcReader	ArcIMS	MapGuide
1. View all the outgrants for an installation	YES	YES	YES
2. Print all the outgrants for an installation	YES	YES	YES
3. View details of each outgrant	YES	YES	YES
4. Print details of each outgrant	YES	YES	YES
5. View electronic copy of the signed outgrant document	YES	YES	YES
6. Print electronic copy of the signed outgrant document	YES	YES	YES
7. View REMIS information for each outgrant	YES	YES	YES
8. Print REMIS information for each outgrant	NO	YES	YES
9. View roads, imagery, utilities, buildings, and other available planimetric features	YES	YES	YES
10. Print outgrant with REMIS information on one page	NO	YES	YES
11. Upload modified outgrant documents (PDF format) to web	NO	YES	YES
12. Edit outgrant contract number and mod number to reflect changes made in REMIS	NO	YES	YES

OTHER IMPORTANT FACTORS	ArcReader	ArcIMS	MapGuide
Queries	NO	YES	YES
Intranet Accessible	YES	YES	YES
Internet Accessible	NO	YES	YES
Zoom Go Tos	NO	NO	YES
Easy to Customize	NO	YES	YES
Good Stability	YES	NO	YES
User Security	NO	YES	YES
Easy to Incorporate Future Data	YES	NO	YES
Bookmarks	YES	NO	YES
High Quality Prints	YES	NO	YES
Medium Quality Prints	YES	YES	YES
Desktop Installation	YES	NO	NO
"Live REMIS Link"	YES	YES	YES
A lot of Administrative Overhead	YES	NO	NO



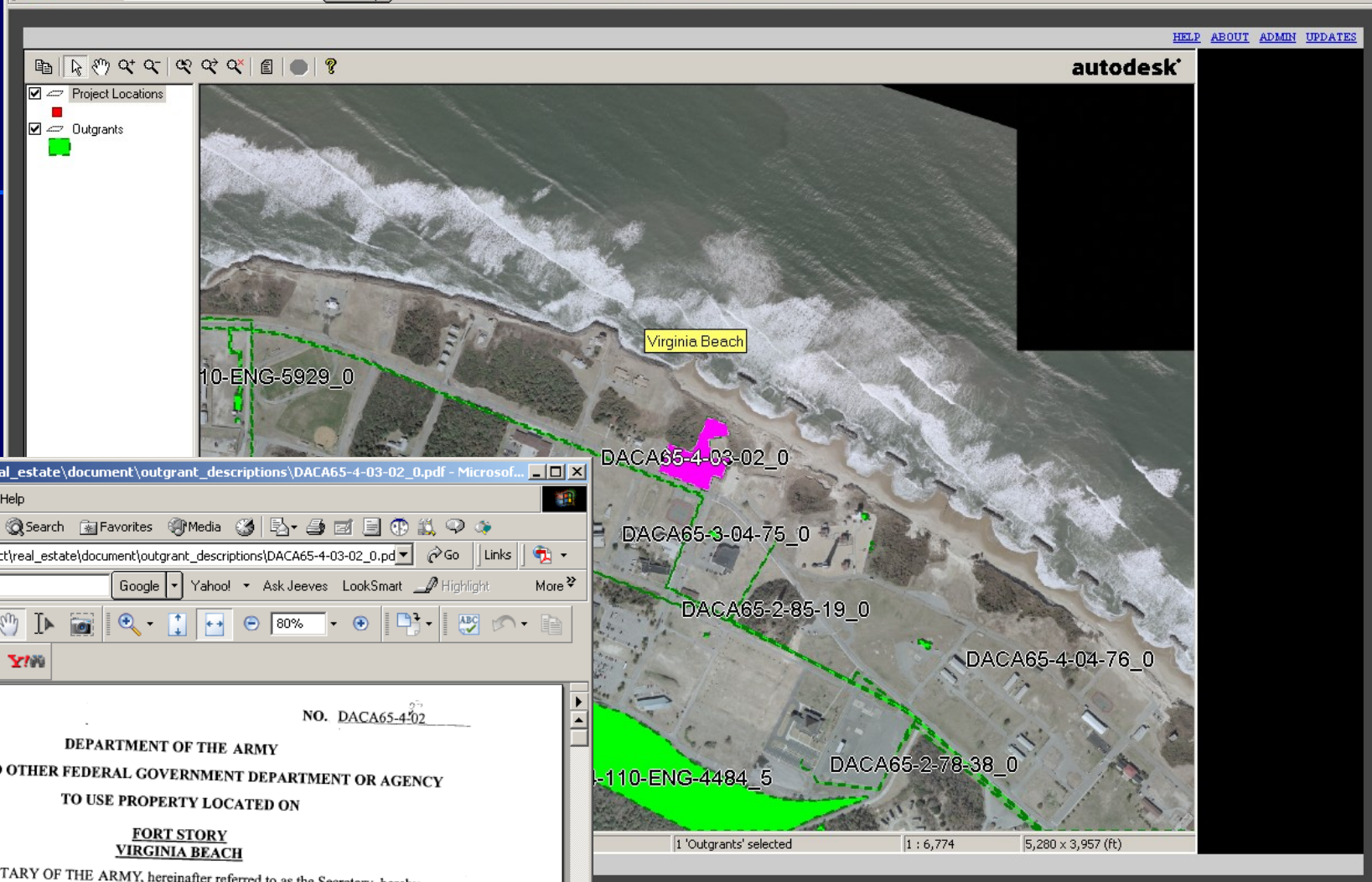


- ☒ Project Locations
- ☒ Outgrants



1 : 6,774

5,280 x 3,957 (ft)



\\nao-fs-im16\gis\project\real_estate\document\outgrant_descriptions\DACA65-4-03-02_0.pdf - Microsof...

File Edit Go To Favorites Help

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NO. DACA65-4-02

DEPARTMENT OF THE ARMY

PERMIT TO OTHER FEDERAL GOVERNMENT DEPARTMENT OR AGENCY

TO USE PROPERTY LOCATED ON

FORT STORY

VIRGINIA BEACH

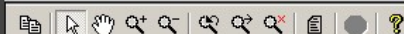
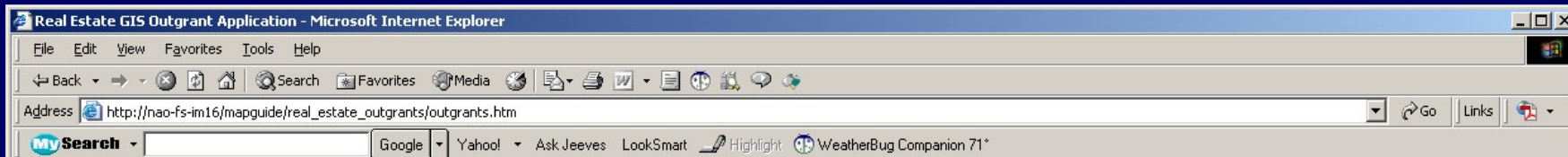
THE SECRETARY OF THE ARMY, hereinafter referred to as the Secretary, hereby grants to the Department of Interior, National Park Service hereinafter referred to as the grantee, a permit for public access to the Battle of Virginia Capes Monument, Cape Henry Memorial Cross with parking facilities

over, across, in and upon the lands identified in Exhibit(s) "A", attached hereto and made a part hereof, hereinafter referred to as the premises.

THIS PERMIT IS MADE A PART OF THE PERMIT TO USE PROPERTY LOCATED ON

1 of 5

Unknown Zone



☒ Project Locations

☒ Out

View Report

Available reports:

REMIS Report

OK

Cancel

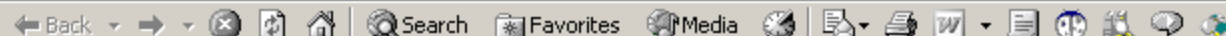
Help

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DACA65-4-03-02_0

Oracle Report - Microsoft Internet Explorer

File Edit View Favorites Tools Help



Address http://nao-fs-im16/MapGuide/real_estate_outgrants/oracle_report.asp

MySearch

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More

Oracle Report

MAIN ID: DACA65-4-03-02_0

MOD DESCRIPTION: 0

DESCRIPTION: PUB ACCES TO BATTLE OF VA CAPES MONUMENT, ETC.

Outgrants : DACA65-4-0

\\nao-fs-im16\gis\proj

Done

Local intranet

Nuts and Bolts

(Joining Spatial Data to Non-Spatial Data)

- Created a field in our spatial data layer called `outgrant_id`.
This field is a combination of the `contract_number` and the `mod_number` in REMIS
- Created a view (query) in REMIS from table `REMIS.REM_OUTGRANT`
- This query contains a field called `main_id` which is the result of joining the `contract_number` and the `mod_number` into one field
- This query also contains all the outgrant fields we wish to see
- The `main_id` field is then used to join to the `outgrant_id` field in the spatial data layer
- Now we are able to symbolize and query using this “live” link

Nuts and Bolts

(Generating Reports)

REMIS Report

- The outgrant_id is sent to the asp report as a “querystring”
- The asp report then queries the REMIS query and returns data for the outgrant chosen

Deed Descriptions

- The document field in the spatial data layer is used to store a path to the PDF deed description file
- Eventually the document field will be eliminated and the URL path will be hard coded in MapGuide and will dynamically pull the outgrant_id from the outgrant_id field

ex. http://server/pdfs/outgrant_id.pdf

user clicks on DACA-02-33-4_3

http://server/pdfs/DACA-02-33-4_3.pdf

SOFTWARE USED

SDS 2.3

AutoCAD Map 2004

Oracle Client 9.2.0.1.0

AutoDesk MapGuide 6.5

Macromedia Dreamweaver MX Studio 2004

ArcGIS 9.0 (testing)

ArcPublisher (testing)

ArcReader (testing)

ArcIMS 9.0 (testing)

ArcSDE 9.0 (testing)

Microsoft Visio 2003

SQL*PLUS

Excel (testing)

DATABASES USED

Oracle 9i

Oracle 8.1.7.4.0 (REMIS)

Microsoft Access 2000 (testing)

WINDOWS 2000 SERVER

IIS 5.0

Windows 2000 security

ODBC/DSN

PROGRAMMING LANGUAGES

SQL

ASP

HTML

Javascript

VBScript

DOS

STANDARDS

SDS 2.3

FGDC

508 Web Compliance

How you can connect to REMIS

- Use your GIS flavor (AutoCAD, ArcGIS, ArcReader, Microstation, ArcIMS, MapGuide)
- Oracle Client (tnsnames.ora, E4CEFMP1, oracle password)
- ODBC (Open Database Connectivity)
- Figure out what spatial data you want to connect to REMIS
- Decide what needs to be done to make a join (one-to-one, one-to-many, etc.)
- Create SOPs/Business Process

Norfolk District is here to help you.

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Any Questions?